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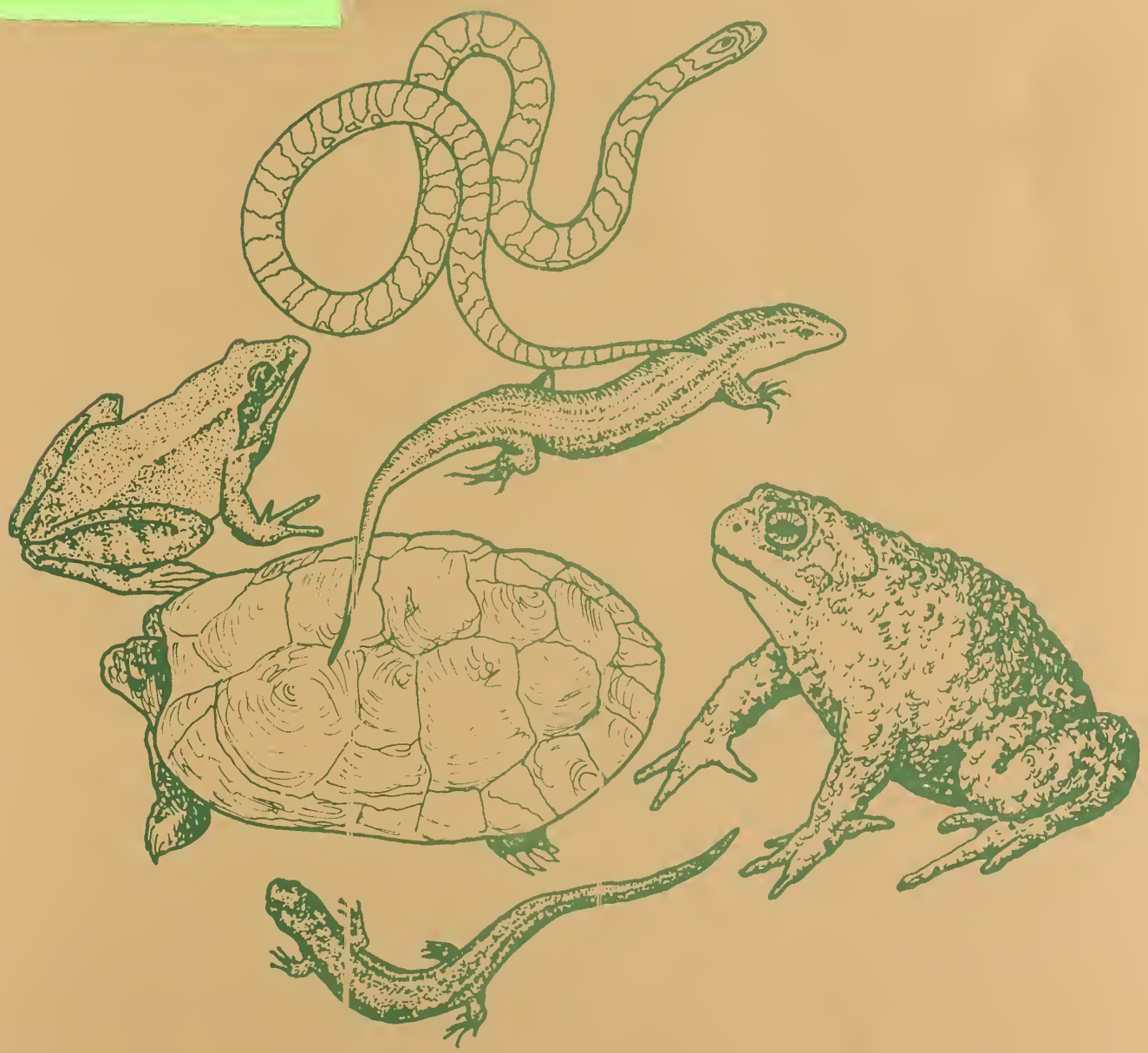
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Forest Service
Southern Region

Reptiles and Amphibians of Southeastern National Forests

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Agriculture**



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REPTILES AND AMPHIBIANS OF SOUTHEASTERN NATIONAL FORESTS

by
Monte E. Seehorn
USDA, Forest Service, Atlanta, Georgia

April 19, 1982





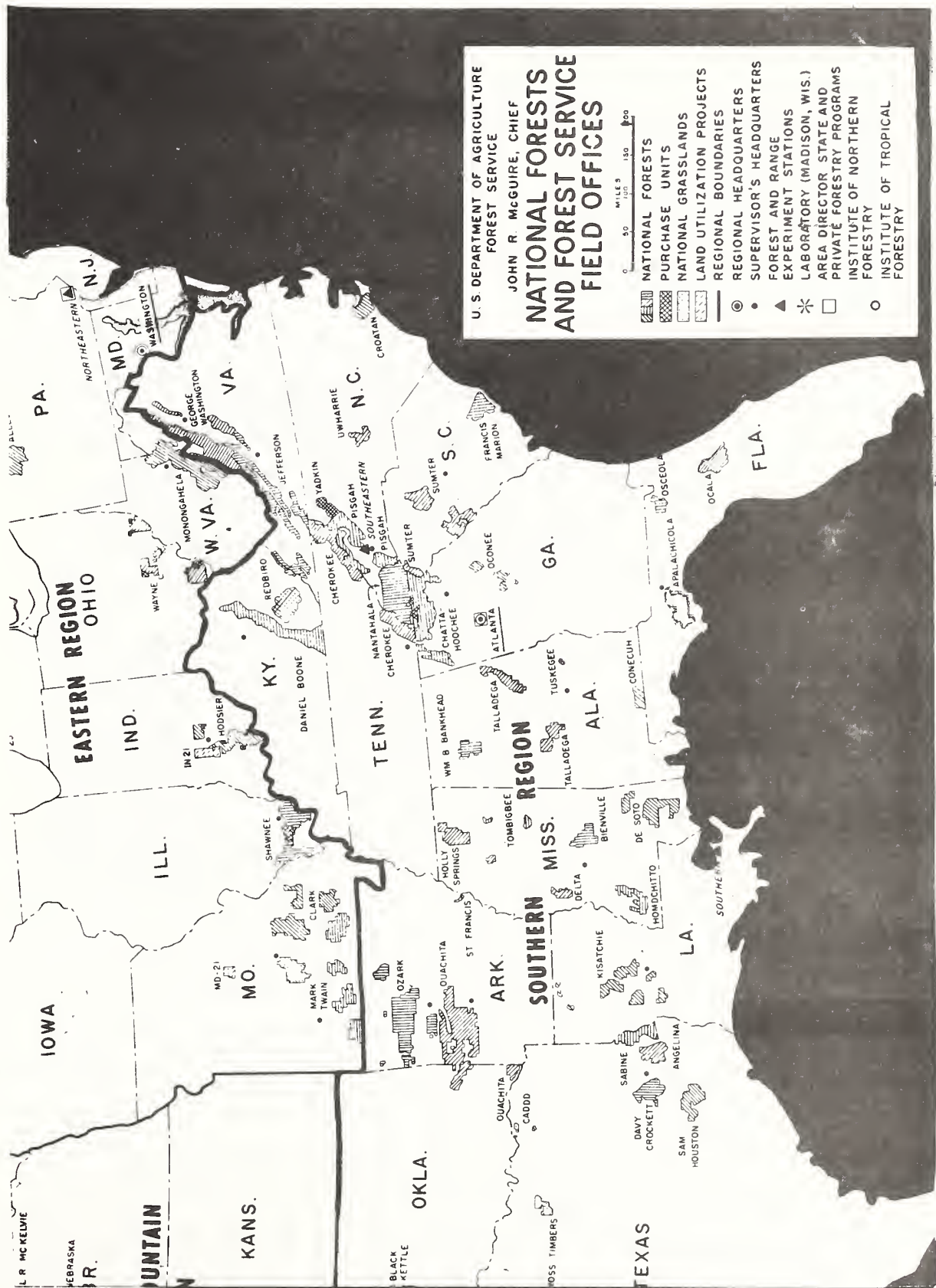


FIGURE 1. Southern Region National Forests.

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Introduction

The Southern Region of the United States Forest Service includes 33 National Forests, containing over 12 million acres in 14 Southeastern States (Figure 1). Elevations range from sea level to over 6400 feet on Mt. Mitchell, the highest peak in the eastern United States.

The more southerly Forests include habitat suitable for sub-tropical species of reptiles and amphibians, while the higher elevations in the Appalachians harbor species common to latitudes in northern United States and Canada. Between these extremes lie highly diversified habitats modified by geology, wide variations in rainfall, and an endless variety of vegetational patterns. As might be expected, wildlife species diversity is equally impressive.

Historically, wildlife management emphasis on both public and private land has been aimed at species offering sporting opportunities, such as deer, bear, squirrel, quail, trout, bass, and bream. Such an approach, at first glance, might appear somewhat biased or short-sighted. Management programs, however, depend to a large extent upon public needs, and their willingness to pay for results. Since hunters and fishermen have been the primary source of revenue for wildlife programs, such emphasis was, and probably still is logical.

Although overall emphasis may be oriented towards game species, non-game programs are receiving increasing attention. This paper is an effort by the Forest Service to focus attention and provide information on one segment of the wildlife community not considered game species. It includes reptiles and amphibians, hereinafter referred to as "herptiles."

Prior to 1974 the Forest Service had little information available concerning occurrence of herptiles in southern National Forests. Although not readily available, considerable data existed in various universities, museums, and private collections. The Forest Service, in an attempt to gather this material and to carry out legislative mandates to manage all species, initiated an inventory of herptiles on southern Forests (excluding Puerto Rico). Contracts were let with nine herpetologists to gather and summarize existing data pertaining to occurrence of these animals on National Forests, and to provide relevant information on life history, habitat requirements, and management recommendations for species of special interest.

Methods and Discussion

The inventory consisted primarily of a literature search and review of existing collections, with a minor amount of fieldwork where obvious gaps in data existed.

Survey results are summarized in the Table using nomenclature recommended in The Society for the Study of Amphibians and Reptiles publication "Standard Common and Current Scientific Names for North American Amphibians and Reptiles." Species assigned special status are designated in the first three columns of the table. "Federal" status is taken from the current Federal Register of endangered and threatened vertebrates. "Southeastern" status is taken from "Endangered and Threatened Vertebrates of the Southeastern United States," (Hillestad et al., in press). Forest Service "sensitive" status is presented in the third column.

Status:	E	=	Endangered
	T	=	Threatened
	SC	=	Special Concern
	S	=	Sensitive

Only five species or subspecies of a total of 464 possibly found on or near southern National Forests are currently listed in the Federal Register as threatened or endangered. These are the Houston toad (E), the Pine Barrens treefrog (E), the eastern indigo snake (T), the Atlantic loggerhead turtle (T), and the American alligator (T).

In addition to these, Hillestad et al. (in press), assigns special status to 59 species, subspecies, or populations of herptiles found in the Southeast, 33 of which occur on or adjacent to National Forests. Of the 33, one is listed as endangered, fifteen as threatened, and seventeen classed as special concern. This list of herptiles was recommended by a broad spectrum of highly qualified scientists, and should rank second in importance only to species on the Federal Register. Many of the herptiles listed will likely be considered for inclusion on the Federal Register. Species and subspecies designated as "sensitive" in the third column include candidates for Federal listing under Federal Register Notice of Review, and other animals of which a continuation of population viability is a concern. Both the "Southeastern" and State lists receive consideration in the process of selection. Species already on the Federal Register are not included.

Distribution or occurrence in States and National Forests is indicated following the three "Status" columns. An "X" in a column indicates a documented occurrence on or immediately adjacent to that Forest. An "A" indicates occurrence is not documented, but that it likely occurs there. A "1" in the same block indicates a species limited to mountainous portions of the Forest. A "2" indicates a species limited to the Piedmont, and a "3" indicates one found primarily in the Coastal Plain.

Species Accounts

The following accounts provide details on distribution, status, habitat requirements, and management recommendations for a few of the more unusual herptiles found on or near southeastern National Forests.

Houston Toad (Bufo houstonensis)

References: Blair 1956, Bragg 1960, Brown 1971, _____ 1965, Bury et al. 1980, Conant 1975, Conservation of the Amphibia of the U.S.A. Review 1980, Douglas 1974, Hillestad et al. (in press), Kennedy 1962.

Status: Listed as endangered on the Federal Register and the South-eastern list. Pure populations probably declining.

General Distribution: South-central and southeastern Texas in Bastrop, Burleson, and Harris counties.

National Forest Distribution: Possibly found on the Sam Houston (Texas).

Description: 5-1-6.7 cm in length. An isolated relative of the American and Southern toads. Very similar to Woodhouse's Toad Group, but differs in being slightly smaller, with heavier cranial crests, and with a trilled call (trill higher pitched than American Toad).

Habitat: Commonly associated with loblolly pine stands in well drained sandy soil.

Management Recommendations:

1. Regulation of development projects.
2. Keep habitat as nearly pristine as possible.
3. Purchase and establish preserves in areas containing breeding sites.

Interspecific hybridization with two other toads poses threat to future stocks.

Pine Barrens Treefrog (Hyla andersoni)

References: Bullard 1965, Christman 1970, Conant 1975, Gosner, K. L. and Black, I. H. 1956, 1967, Harrison 1974, Hillestad et al. (in press), Means, D. B. and Longden, C. O. 1976, Moler 1980, Mount 1975, 1980, Neil 1974, Noble, G. and Noble, R. C. 1923, Palmer 1975, Wright 1932, Wright, H. and Wright, A. 1949.

Status: Listed as endangered on the Federal Register ("Florida population" only). Southeastern list classifies the "Carolina" populations as threatened and the Florida population as endangered. Forest Service includes populations outside Florida as sensitive. Overall population is probably declining.

General Distribution: Occurs in three disjunct areas: Pine Barrens of New Jersey, upper coastal plain of North and South Carolina, and northwestern Florida and extreme southern Alabama.

National Forest Distribution: Actual occurrence was verified on the Conecuh National Forest (Alabama) during 1980. Although there are no records of this species on the Croatan and Uwharrie National Forests (North Carolina), it is found in adjacent lands and, therefore, more than likely exists in the Forests.

Description: 2.9-4.4 cm in length. Dorsum and upper leg surfaces pea green with a chocolate brown to lavender lateral band separated by a yellowish white border. Inside surface of the legs have orange markings.

Habitat: Found in or closely associated with shrub bogs and pocosins (North Carolina), dominated by titi and other low flatwoods plants such as poison sumac, sweetbay, and gallberry (*Taxodium* is usually, but not always, absent). Sphagnum mats and shallow pools of clear water are common in good habitat.

Management Recommendations: With recent surveys turning up additional populations of this treefrog, consideration should be given to removing it from the Federal Register. To insure suitable habitat Mount (1980) has suggested the following for Alabama, which should apply to other areas as well.

1. Prescribe burn the shrub bogs every 3-5 years to reduce encroachment by pines, gums, poplars, and other undesirable species.
2. Maintain surrounding uplands in longleaf pine-turkey oak association. Managed stands minimize evapotranspiration.
3. Avoid plowing firebreaks through the shrub bogs.

4. Prohibit grazing and discourage vehicle and excessive foot travel through the bog.
5. Protect the bogs from development projects.

Bog Turtle (Clemmys muhlenbergi)

References: Anon. 1973, Barton and Price 1955, Carr 1952, Conant 1975, Cooper et al. 1973, Douglas 1975, 1976, Ernst, C. H. and Barbour, R. W. 1972, Hillestad et al. (in press), Lee 1970, _____ 1973, Nemuras 1974, Salazar 1967.

Status: Not listed on the Federal Register, but classed as threatened on Southeastern list and sensitive by Forest Service. Populations declining due to loss of habitat and its value in the "pet" trade.

General Distribution: Discontinuously distributed from near sea level in the North, southward into the mountains of Virginia, North Carolina, Tennessee, Georgia, and possibly South Carolina.

National Forest Distribution: Found on the Pisgah, Nantahala (North Carolina), and Chattahoochee (Georgia). Although there are no records at present, they are likely found on the Cherokee (Tennessee) and the Andrew Pickens division of the Sumter National Forest (South Carolina).

Description: 7.6-8.9 cm in length. One of the smallest North American turtles. Dark with distinctive large orange on yellow patches on head. Large scutes of carapace may have yellowish or reddish centers.

Habitat: This turtle is very restrictive in its requirements, being found only in very localized sphagnum bogs, swamps or damp sedge meadows with slow moving streams. Successional changes from a sedge meadow to a wetter cattail marsh, to a drier green ash, or alder swamp are detrimental to bog turtles. Colonies are most often found on or adjacent to floodplains of rivers and streams where overstory is scant. Normally found above 2000 feet elevation in southernmost portions of its range.

Management Recommendations:

1. Summarize existing data on status of all known colonies.
2. Initiate field inventories for new colonies.
3. Establish protective measures for known colonies.

4. Initiate legislation in all states to stop commercial exploitation of the species.

Gopher Tortoise (Gopherus polyphemus)

References: Carr 1952, Conant 1975, Douglas 1975, Ernst, C. H. and Barbour, R. W. 1972, Hillestad et al. (in press), Means 1975, Mount 1975, _____ 1980, Speake, D. W. and Mount, R. H. 1973.

Status: Not listed in Federal Register, but classed threatened on Southeastern list. Listed as sensitive by Forest Service. Declining over most of its range due to collecting by humans and habitat destruction.

General Distribution: Occurs in coastal plain from southern South Carolina to eastern Louisiana.

National Forest Distribution: Occurs on Ocala (Florida), Osceola (Florida), Apalachicola (Florida), Conecuh (Alabama), and DeSoto (Mississippi) National Forests.

Description: 15-24 cm, but reaching maximum length of 38 cm. Stumpy elephantlike hind feet completely without webs. Top of head conspicuously scaled, front toenails large and flattened, plastron unhinged. Gular of plastron extending well forward. Carapace brown with the scutes yellow-centered in young; soft parts yellow to yellowish brown in young, darkening to brown or almost black in adults.

Habitat: Found primarily in sandy well drained habitats. Greatest population densities normally found in sandhill or longleaf pine-turkey oak associations. Since the "gopher" feeds principally upon herbaceous vegetation and needs sunlight for egg incubation, an open overstory is essential. Fire is also essential in maintaining optimum conditions, since it promotes herbaceous growth and inhibits undesirable woody species. Clearcutting is, in most cases, beneficial to the gopher tortoise, even when some mechanical site preparation follows. Although light mechanical site preparation such as anchor chaining likely has no adverse effect upon the gopher tortoise (since it can dig out of a collapsed burrow), other species using the burrow such as the Dusky Gopher Frog may not have this capability. Where management of such species is critical, techniques and timing of site preparation should be modified accordingly.

Management Recommendations:

1. Prohibit collecting or taking gophers on public lands throughout the range.

2. "Gassing" gopher holes for rattlesnakes should be banned on public lands.
3. Favor longleaf pine as the timber management type in gopher habitat.
4. Set up a burning program and try to keep up to 20 percent of the total area in openings.
5. When planting pine in gopher habitat, space rows and trees as widely apart as practicable.
6. Prohibit grazing on prime gopher habitat.

The commensal relationship between the gopher tortoise and several other unusual wildlife species make it doubly important to implement the above management recommendations on National Forests. The Eastern Indigo Snake, the Florida Pine Snake, the Eastern Diamondback Rattlesnake, Dusky Gopher Frog and many other species of wildlife are dependent, to varying degrees, upon the burrows provided by the gopher tortoise.

American alligator (Alligator mississippiensis)

References: Bara 1972, Conant 1975, Douglas 1974, _____, 1975, Harrison 1976, Hillestad et al. (in press), Joanen 1969, Joanen, T. and McNease, L. 1970, _____ 1972, and _____ 1973, McIlhenny 1935, McNease, L. and Joanen, T. 1974, Means 1976, Mount 1975, _____, 1980, Palmer 1975.

Status: The alligator is Federally endangered in most inland areas and threatened in most coastal areas. It is listed as threatened in Florida. In Louisiana it is listed under "similarity of appearance" for the entire state, which allows controlled harvest. The southeastern list classifies the alligator "special concern."

General Distribution: The Coastal Plain, from North Carolina southward to Big Pine Key in Florida. Westward to Rio Grande River and possibly northern Mexico. Northward in the Mississippi drainage to Arkansas and southeastern Oklahoma.

National Forest Distribution: Croatan (North Carolina), St. Francis (Arkansas), Francis Marion (South Carolina), Conecuh (Alabama), Kisatchie (Louisiana), and all National Forests in Texas, Florida and Mississippi.

Description: 1.8-5.0 meters in length. Record is 5.85 meters. The broadly rounded snout with fourth tooth not visible when mouth

closed distinguishes the American alligator from the American crocodile (long tapering snout) which is the only other crocodilian native to the United States. The crocodile is found only in the Everglades, Biscayne Bay and the Florida Keys.

Habitat: A resident of the creek and river swamps, lakes, bayous, marshes, and other bodies of water in the Gulf and Atlantic Coastal Plains. Found occasionally in salt water.

Adult females select dense vegetation adjacent to isolated ponds for nest construction, although courtship occurs in larger open-water areas. Adult and sub-adult males prefer open water year round. Immatures of both sexes frequent areas near the nest site for the first two years.

Management Recommendations: Protection from commercial exploitation is the most important factor in maintaining alligator population. At present the level of protection appears to be adequate. Maintenance of stable adequate water levels is probably second in importance. Lowering water levels in spring in some cases may eliminate nesting effort, while low water levels in summer and fall reduce the aquatic food base important in the alligator's diet.

Sand Skink (Neoseps reynoldsi)

References: Christman 1970, Conant 1975, Hillestad et al., (in press), Means 1976, Myers, C. W. and Telford, S. R., Jr. 1962, _____ 1965, _____ 1969 Telford 1959.

Status: Not listed on the Federal Register, but classed as threatened on the Southeastern list. Included on Forest Service sensitive list. Population statistics not known at present, but overall distribution pattern probably unchanged over recent years.

General Distribution: Limited to the Central Florida Ridge from Highlands County northward to the Ocala National Forest (four counties).

National Forest Distribution: Ocala National Forest (Florida).

Description: 10-13 cm. in length. Has only vestigial legs. The front ones are so tiny they can easily be overlooked, and bear only a single toe. The rear legs are slightly larger and have two digits. This small lizard is an adept burrower that literally "swims" through dry sand, and feeds on termites and beetle larvae while burrowing.

Habitat: Optimal habitat appears to be the ecotone between rosemary shrub and palmetto-pine flatwoods in St. Lucie fine sand, where moist sand underlies dry surface sand at a depth of one to a few inches. Current known populations are all found above 90 feet elevation.

Management Recommendations: Set aside scrub sanctuaries in Highlands and Polk counties.

Eastern Indigo Snake (Drymarchon corais)

References: Carr 1940, Conant 1975, Hillestad et al. (in press), Means 1976, Mount 1980, Neal 1954, Speake, D. W. and Mount, R. H. 1973

Status: Listed as threatened on the Federal Register and threatened on the southeastern list. Population probably declining due to habitat loss; commercial exploitation, and deliberate killing.

General Distribution: Primarily peninsular Florida, but also occurs sparsely in the Florida panhandle and southern Georgia. In addition, there is one old record for southern South Carolina, which has never been verified.

National Forest Distribution: Ocala, Apalachicola, and Osceola National Forests (Florida).

Description: 152-198 cm in length (record is 254.6 cm). It is the largest serpent in North America. Entirely shiny bluish black except for chin and sides of head which may be reddish or orange-brown. Scales smooth; anal plate single. Other plain black snakes within its range have keeled scales, a divided anal plate, or both.

Habitat: Occurs predominantly in high pineland habitats, although it is found, at times, in edges of aquatic and muckland habitats. Optimum conditions are extensive areas of well drained sandy habitat supporting longleaf pine-wiregrass-turkey oak communities of the same type that provide optimum gopher tortoise habitat. Interspersed low lying habitats contribute to carrying capacity. The indigo snake relies heavily on gopher tortoise burrows for dens, although crab holes along canal banks and other shelters are sometimes used in the more southerly portions of the range.

Management Recommendations:

1. Because of the threats of commercial exploitation and deliberate killing of this species, legislation prohibiting the taking or killing of these snakes is one of the most important measures insuring its survival. The practice of "gassing" gopher holes during rattlesnake roundups is especially detrimental, since indigo snakes are also killed.
2. Most measures that enhance gopher tortoise populations will enhance indigo snake populations. This includes prescribed burning and favoring longleaf pine as the timber management type on suitable sites.
3. Initiate educational programs aimed at the general public and forest and wildlife managers to reduce incidental killing of terrestrial snakes.
4. Reduce or prohibit public access to areas of optimal habitat whenever practical.
5. Avoid intensive mechanical site preparation in areas of optimal habitat.

Short Tailed Snake (Stilosoma extenuatum)

References: Allen, R. and Neill, W. T. 1953, Carr 1934, _____, 1940, _____, 1956, _____, 1976, Conant 1975, Fitch 1970, Highton 1956, Hillestad et al. (in press), Wright and Wright 1957.

Status: Not on Federal Register, but classed as endangered on the Southeastern list. Population decline in some areas believed to be due to loss of habitat. Predation by introduced armadillo may also be a factor.

General Distribution: Endemic to Florida, occurring on the Central Florida Ridge from Highlands County to Suwannee River, and westward to the Gulf Coast.

National Forest Distribution: Ocala National Forest (Florida).

Description: 36-51 cm in length. A slender smooth scaled snake with with a single anal plate. Tail less than 10 percent of total body length. Dorsum with 50-80 dark brown blotches separated by yellowish, orange, or red interspaces. Sides silvery gray with lateral blotches alternating with dorsal markings. Belly strongly blotched with brown or black.

Habitat: Found primarily in the longleaf pine-wiregrass-turkey oak ecosystems and occasionally in the upland hammocks and rosemary scrub associated with this type habitat.

Management Recommendations: The primary enhancement for this species is believed to be preservation of the longleaf pine-turkey oak habitat.

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DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS			VA-WV	NC			TN	GA	AL			MS					LA	FL			TX						AR		KY	SC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Federal	Southeastern	Forest Service		Croatan	Uwharrie	Pisgah			Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee		Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers			Savane	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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SPECIES AND SUBSPECIES

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SPECIES AND SUBSPECIES	STATUS			VA-WV	NC	N	GA	AL				MS						LA	FL			TX						AR	KY	SC									
	Federal	Southeastern	Forest Service	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chatahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Ouachita	Daniel Boone	Sunder	Francis Marion	
SIREN - SIRENS																																							
S. intermedia																																							
S. i. intermedia																																							
Eastern Lesser Siren																																							
S. i. nettingi																																							
Western Lesser Siren																																							
S. lacertina																																							
Greater Siren																																							
STEREOCHILUS - MANY-LINED SALAMANDERS																																							
S. marginatus																																							
Many-lined Salamander																																							
TYPHLOTRITON - GROTTO SALAMANDERS																																							
T. spelaeus																																							
Grotto Salamander																																							

DISTRIBUTION BY STATE AND NATIONAL FORESTS

19

SPECIES AND SUBSPECIES	STATUS		VA-WV	NC		TN	GA	AL			MS				LA	FL		TX				AR		KY	SC												
	Federal	Southeastern	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Dorchester	Bartholomew	Talladega	Concun	Tuskegee	Holly Springs	Blenville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Ouachita	Daniel Boone	Sunter	Francis Marion	
GASTROPHRYNE - NARROWMOUTH TOADS																																					
G. carolinensis																																					
Eastern Narrowmouth Toad																																					
G. olivacea																																					
Great Plains Narrowmouth Toad																																					
HYLA - TREEFROGS																																					
H. andersoni																																					
Pine Barrens Treefrog																																					
H. avivoca																																					
Bird-voiced treefrog																																					
H. chrysocelis																																					
Cole's Gray Treefrog																																					
H. cinerea																																					
Green Treefrog																																					
H. c. bartramiana																																					
Southern Spring Peeper																																					
H. c. crucifer																																					
Northern Spring Peeper																																					
H. femoralis																																					
Pine Woods Treefrog																																					
H. gratiosa																																					
Barking Treefrog																																					
H. squirella																																					
Squirrel Treefrog																																					
H. versicolor																																					
Gray Treefrog																																					
*LEPTODACTYLIDAE - TROPICAL FROGS																																					
E. planirostris																																					
E. p. planirostris																																					
Greenhouse Frog																																					
LIMNAEUS - GRASS FROGS																																					
L. ocularis																																					
Little Grass Frog																																					
PSEUDACRIS - CHORUS FROGS																																					
P. brachyphona																																					
Mountain Chorus Frog																																					
P. brimleyi																																					
Brimley's Chorus Frog																																					
P. clarki																																					
Spotted Chorus Frog																																					
P. nigrita																																					
Southern Chorus Frog																																					

*"Introduced species"

SPECIES AND SUBSPECIES

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DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS			VA-WV	NC			TN	GA	AL			MS					LA	FL		TX						AR		KY	SC									
	Federal	Southeastern	Forest Service	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Quachita	Daniel Boone	Sumter	Francis Marion	
SCAPHIOPUS - SPADEFOOT TOADS																																							
S. bombifrons																																							
Plains Spadefoot																																							
S. couchi																																							
Couch's Spadefoot																																							
S. holbrookii																																							
Eastern Spadefoot																																							
S. hurteri																																							
S. h. hurteri																																							
Hurter's Spadefoot																																							

SPECIES AND SUBSPECIES

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DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS		VA-WV	NC		TN	GA	AL			MS				LA	FL			TX						AR	KY	SC											
	Federal	Southeastern	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Concun	Tuskegee	Holly, Springs	Tombigbee	Blenville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion	
CLEMYS - POND TURTLES																																						
C. guttata			X								X												A	A	A												X	
Spotted Turtle																																						
C. insculpta																																						
Wood Turtle			X																																			
C. muhlenbergi																																						
Bog Turtle	T	T	S					X	X	A	X																										I	
																																					A	
DEIROCHELYS - CHICKEN TURTLES																																						
D. reticularia																																						
D. r. chrysea																																						
Florida Chicken Turtle																																						
D. r. miaria																																						
Western Chicken Turtle																																						
D. r. reticularia																																						
Eastern Chicken Turtle																																						
GOPHERUS - GOPHER TORTOISES																																						
G. polyphemus																																						
Gopher Tortoise	T	S																																				
GRAPTEMYS - MAP TURTLES																																						
G. barbouri																																						
Barbour's Map Turtle																																						
G. flavimaculata																																						
Yellow-blotched Map Turtle	T	S																																				
G. geographica																																						
Map Turtle				X					X	X	X	A																									X	
G. kohni																																						
Mississippi Map Turtle																																						
G. nigrinoda																																						
G. n. nigrinoda																																						
Black-knobbed Map Turtle																																						
G. oculifera																																						
Ringed Map Turtle	T																																					
G. pseudogeographica																																						
G. p. ouachitensis																																						
Quachita Map Turtle																																						
G. p. sabinensis																																						
Sabine Map Turtle																																						
G. pulchra																																						
Alabama Map Turtle																																						

[illegible]

TABLE 3

[illegible]

[illegible]

TABLE 4

[illegible]

DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS			VA-WV	NC			TN	GA	AL			MS					LA	FL					TX					AR		KY	SC					
	Federal	Southeastern	Forest Service		Croatan	Uwharrie	Pisgah			Nantahala	Cherokee	Chatahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee		Holly Springs	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina			Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis
SPECIES AND SUBSPECIES																																					
COLUMBER (Cont'd)																																					
C. c. constrictor				X	X	X	X	X	X																									X			
Northern Black Racer																																					
C. c. flaviventris																																					
Eastern Yellowbelly Racer																																					
C. c. helvigiularis																																					
Brownchin Racer																																					
C. c. priapus																																					
Southern Black Racer																																					
CROTALUS - RATTLESNAKES																																					
C. adamanteus																																					
Eastern Diamondback Rattlesnake		SC	S								X																										
C. atrox																																					
western Diamondback Rattlesnake																																					
C. horridus				X	X	X	X	X	X	X																											
Timber Rattlesnake																																					
DIADOPHIS - RINGNECK SNAKES																																					
D. punctatus																																					
D. p. armyi																																					
Prairie Ringneck Snake																																					
D. p. edwardsi																																					
Northern Ringneck Snake				X	X	X	X	X	X																												
D. p. punctatus																																					
Southern Ringneck Snake																																					
D. p. stictogenys						X																															
Mississippi Ringneck Snake																																					
DRYMARCHON - INDIGO SNAKES																																					
D. corais																																					
D. c. couperi																																					
Eastern Indigo Snake		T	T																																		
ELAPHE - RAT SNAKES																																					
E. guttata																																					
E. g. emoryi																																					
Great Plains Rat Snake																																					
E. g. guttata																																					
Corn Snake																																					
E. obsoleta			S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
E. o. lindheimeri																																					
Texas Rat Snake																																					
E. o. obsoleta																																					
Black Rat Snake				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

TABLE 5 (Cont'd)

DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS			VA-WV			NC			TN		GA		AL						MS						LA			TX						AR		KY	SC
	Federal	Southeastern	Forest Service	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Barkhead	Talladega	Conecun	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
LAMPROPELTIS (Cont'd)																																						
L. g. holbrooki																																						
Speckled Kingsnake																																						
L. g. niger																																						
Black Kingsnake																																						
L. triangulum																																						
L. t. amaura																																						
Louisiana Milk Snake																																						
L. t. elapsoides																																						
Scarlet Kingsnake																																						
L. t. sypsiola																																						
Red Milk Snake																																						
L. t. triangulum																																						
Eastern Milk Snake																																						
LEPTOTYPHLOPS - BLIND SNAKES																																						
L. dulcis																																						
L. d. dulcis																																						
Plains Blind Snake																																						
MASTICOPHIS - WHIPSNAKES AND COACHWHIPS																																						
M. flagellum																																						
M. f. flagellum																																						
Eastern Coachwhip Snake																																						
M. f. testaceus																																						
Western Coachwhip Snake																																						
MITRURUS - EASTERN CORAL SNAKES																																						
M. fulvius																																						
Eastern Coral Snake																																						
M. f. tener																																						
Texas Coral Snake																																						
NERODIA - WATER SNAKES AND SALT MARSH SNAKES																																						
N. cyclopion																																						
Green Water Snake																																						
N. c. floridana																																						
Florida Green Water Snake																																						
N. erythrogaster																																						
N. e. erythrogaster																																						
Redbelly Water Snake																																						
N. e. flavigaster																																						
Yellowbelly Water Snake																																						

DISTRIBUTION BY STATE AND NATIONAL FORESTS

TABLE 5 (Cont'd)

SPECIES AND SUBSPECIES	STATUS		VA-WV		NC		TN	GA	AL				MS					LA	FL			TX					AR	KY	SC								
	Federal	Southeastern Forest Service	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chatahoochee	Dconee	Barkhead	Talladega	Corecun	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Dcala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Dzark	St. Francis	Quachita	Daniel Boone	Sumter	Francis Marion
REGINA - CRAYFISH SNAKES																																					
R. alleni																																					
Striped Crayfish Snake																																					
R. grahami																																					
Graham's Crayfish Snake																																					
R. rigida																																					
R. r. rigida																																					
Glossy Crayfish Snake																																					
R. r. sinicola																																					
Gulf Crayfish Snake																																					
R. septemvittata																																					
Queen Snake																																					
SC																																					
RHADINAEA - PINE WOODS SNAKES																																					
R. flavilata																																					
Pine Woods Snake																																					
RHINOCEILUS - LONGNOSE SNAKES																																					
R. lecontei																																					
R. l. tessellatus																																					
Texas Longnose Snake																																					
SALVADORA - PATCHNOSE SNAKES																																					
S. grahamiae																																					
Mountain Patchnose Snake																																					
SEMINATRIX - SWAMP SNAKES																																					
S. pygaea																																					
S. p. paludis																																					
Carolina Swamp Snake																																					
S. p. pygaea																																					
North Florida Swamp Snake																																					
S. p. pygaea																																					
S. p. pygaea																																					
S. p. pygaea																																					
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DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS		VA-WV	NC			TN	GA	AL			MS					LA	FL			TX						AR		KY	SC								
	Federal	Southeastern	Geo. Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Quachita	Daniel Boone	Sumter	Francis Marion	
SONORA - GROUND SNAKES <i>S. episcopa</i> <i>S. e. episcopa</i> Great Plains Ground Snake		Forest Service																																				
STILOSONA - SHORT-TAILED SNAKES <i>S. extenuatum</i> Short-tailed Snake		E S																																				
STORERIA - BROWN SNAKES AND REDBELLY SNAKES <i>S. dekayi</i> <i>S. d. dekayi</i> Northern Brown Snake																																						
<i>S. d. texana</i> Texas Brown Snake <i>S. d. victa</i> Florida Brown Snake																																						
<i>S. d. wrightorum</i> Midland Brown Snake <i>S. occipitomaculata</i> <i>S. o. obscura</i> Florida Redbelly Snake																																						
<i>S. o. occipitomaculata</i> Northern Redbelly Snake																																						
TANTILLA - BLACKHEAD SNAKES AND CROWNED SNAKES <i>T. coronata</i> Southeastern Crowned Snake																																						
<i>T. gracilis</i> Flathead Snake <i>T. nigriceps</i> <i>T. n. fumiceps</i> Texas Blackhead Snake																																						
<i>T. relicta</i> <i>T. r. neilli</i> Central Florida Crowned Snake																																						
<i>T. r. relicta</i> Peninsula Crowned Snake																																						

DISTRIBUTION BY STATE AND NATIONAL FORESTS

SPECIES AND SUBSPECIES	STATUS	VA-WV		NC			TN	GA		AL			MS					LA	FL			TX					AR		KY	SC								
		Geo. Washington	Jefferson	Croatan	Uwharrie	Plisgan	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	Desoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Cross Timbers	Sabine	Angelina	Davy Crockett	Sam Houston	Caddo	Ozark	St. Francis	Quachita	Smelter Boon	Sumter	Francis Marion		
THAMNOPHIS - GARTER AND RIBBON SNAKES T. marcianus T. m. marcianus Checkered Garter Snake T. proximus T. p. proximus Western Ribbon Snake T. radix T. r. haydeni Western Plains Garter Snake T. sirtalis T. s. sackeni Peninsula Ribbon Snake T. s. sauritis Eastern Ribbon Snake T. sirtalis T. s. annectans Texas Garter Snake T. s. parietalis Red-sided Garter Snake T. s. sirtalis Eastern Garter Snake	Federal																																					
	Southeastern																																					
	Forest Service																																					
TROPIDOCOLONION - LINED SNAKES T. lineatum T. l. annectans Central Lined Snake VIRGINIA - EARTH SNAKES V. striatula Rough Earth Snake V. v. elegans Western Earth Snake V. v. pulchra Mountain Earth Snake V. v. valeriae Eastern Earth Snake																																						

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